BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 25.00 Lakhs

Name of Work:-Improvement of drain and asphalting to A sector main and cross roads in ward no-04ward no:04

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
1	Removing B S slab of drain and stacking	sqm							
	13th A Cross		1	40.00	1.65		66.00		
	10th A Main		1	10.00	1.65		16.50		
	7th A Main		1	20.00	1.65		33.00		
	3rd A Main		1	40.00	1.65		66.00		
	11th A Cross		1	95.00	1.65		156.75		
							338.25		
		Deduct 30%of Missing slabs qty					101.48		
	Basic Rate	54.00					236.78	58.32	13809.00
	Area Weightage @ 8%	4.32							
	Total	58.32							
2	Refixing stone slabs of drains and pointing in CM(1:3)	Sqm							
			Vide Item No. 1				236.78	75.60	17900.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:5) including fixing curing etc., complete do 7.5 cms thick	sqm							
		30% of Missing slabs qty					101.48	639.36	64879.00
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	639.36							
4	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift up to 1.5m,excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no 138, PWD SR 2014-15)	Cum							
	Desilting of drains:-:-13th A Cross		1	40.00	0.50	0.35	7.00		
	10th A Main		1	10.00	0.50	0.30	1.50		
	7th A Main		1	20.00	0.50	0.30	3.00		
	3rd A Main		1	40.00	0.50	0.35	7.00		
	11th A Cross		1	95.00	0.50	0.35	16.63		
	Berm cutting:-13th A Cross		1	40.00	1.80	0.20	14.40		
	10th A Main		1	10.00	1.80	0.20	3.60		

	7th A Main		1	20.00	2.00	0.20	8.00		
	3rd A Main		1	40.00	2.00	0.20	16.00		
	11th A Cross		1	95.00	2.00	0.20	38.00		
	Flagging coarse:-13th A Cross		2	40.00	0.30	0.20	4.80		
	10th A Main		2	10.00	0.30	0.20	1.20		
	7th A Main		2	20.00	0.30	0.20	2.40		
	3rd A Main		2	40.00	0.30	0.20	4.80		
	11th A Cross		2	95.00	0.30	0.20	11.40		
	3rd A Main levelling &earth cutting portion		2	45.00	1.80	0.15	24.30		
	Basic Rate	70.00					**164.03**	**75.60**	**12400.00**
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
5	KSRB 2-2 2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2014-15	Cum							
	Kerb stone base		2	220.00	0.30	0.20	26.40		
	3rd A Main		2	45.00	0.30	0.20	5.40		
	Culverts		1	5.00	2.00	0.80	8.00		
							39.80		
	Deductions for house portion		2	26.00	0.30	0.20	3.12		
	Basic rate	245.00					**36.68**	**264.60**	**9706.00**
	Add 8% AW	19.60							
	Total	**264.60**							
6	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exceeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS 4.1,4.2 (Item no: 4.3,Page no12, PWD SR 2014-15)	Cum							
	Kerb stone base		2	220.00	0.30	0.10	13.20		
	3rd A Main		2	45.00	0.30	0.10	2.70		
	Culverts		1	5.20	2.00	0.15	1.56		
							17.46		

	Deductions for house portion		2	26.00	0.30	0.20	3.12		
							14.34	**4847.04**	**69507.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							
7	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.23/5.9) PWD SR 2014-15								
			2	5.00	0.55	0.65	3.58		
	Basic Rate	4206.00					**3.58**	**4542.48**	**16239.00**
	Area Weightage @ 8%	336.48							
	Total	4542.48							
8	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasterise @ 3lts conforming etc as per specification&direction of the engineer incharge of work(pwd sr2014-15,p.no13,sno4.11)	Cum							
	Deck slabs		1	5.00	2.00	0.23	2.30		
							2.30	**6065.28**	**13950.00**
	Basic rate	5616.00							
	Add 8% AW	449.28							
	Total	6065.28							
9	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr 2014-15,p.no17,s.no 4.46)	Qtl							
	For culvert 95 kg / cum						**2.19**		
							2.19	**7905.60**	**17274.00**
	Basic rate	7320.00							
	Add 8% AW	585.60							
	Total	**7905.60**	3						

10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asper specification. Specification no.KBS 4.6.2 (pwd sr2014-15,p.no15/4.31)	Sqm							
			1	5.00	0.70		3.50		
	Basic rate	271.00					3.50	292.68	1024.00
	Add 8% AW	21.68							
	Total	292.68							
11	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.3 / PWD SR 2014-15								
	Drain inner sdie		2	5.00		0.60	6.00	92.88	557.00
	Basic rate	86.00							
	Add 8% AW	6.88							
	Total	92.88							
12	KSRRB 4.1:6Providing and laying in position plain **cement concrete mix 1:2:4** with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted,in foundation,plinth and cills,including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification no 4.1,4.2 **(Page.12 & Item No. 4.6)**	Cum							
	Foundation for flagging course								
	13th A Cross		2	40.00	0.25	0.15	3.00		
	10th A Main		2	10.00	0.25	0.15	0.75		
	7th A Main		2	20.00	0.25	0.15	1.50		
	3rd A Main		2	40.00	0.25	0.15	3.00		
	11th A Cross		2	95.00	0.25	0.15	7.13		
	For coping:-								
	13th A Cross		2	40.00	0.20	0.10	1.60		
	10th A Main		2	10.00	0.20	0.10	0.40		
	7th A Main		2	20.00	0.20	0.10	0.80		

	3rd A Main		2	40.00	0.20	0.10	1.60		
	11th A Cross		2	95.00	0.20	0.10	3.80		
	Culvert coping		2	5.00	0.55	0.10	0.55		
	Vent portion								
	13th A Cross		1	40.00	0.45	0.10	1.80		
	10th A Main		1	10.00	0.45	0.10	0.45		
	7th A Main		1	20.00	0.45	0.10	0.90		
	3rd A Main		1	40.00	0.45	0.10	1.80		
	11th A Cross		1	95.00	0.45	0.10	4.28		
	Culvert vent portion		1	5.00	0.60	0.10	0.30		
	Approaches concrete		2	5.00	0.45	0.10	0.45		
							34.10	**5327.64**	**181673.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							
13	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.27)								
	Foundation for flagging course								
	13th A Cross		2	40.00		0.20	16.00		
	10th A Main		2	10.00		0.20	4.00		
	7th A Main		2	20.00		0.20	8.00		
	3rd A Main		2	40.00		0.20	16.00		
	11th A Cross		2	95.00		0.20	38.00		
							82.00	**993.60**	**81475.00**
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	993.60							
14	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).	Sqm							
	11th A Cross		2	220.00	0.90		396.00		
	Missing slabs in 12th A Cross		2	200.00	1.20		480.00		
							876.00		
		30% of Missing quantity					262.80		
	13th A Cross		1	40.00	0.90		36.00		
	10th A Main		1	10.00	0.90		9.00		
	7th A Main		1	20.00	0.90		18.00		
	3rd A Main		1	40.00	0.90		36.00		
	11th A Cross		1	95.00	0.90		85.50		

							447.30	1498.00	670055.40
15	Providing and fixing precast solid concrete kerb stones made out of 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc..complete asper specifications and directions of the engineer in charge of the work.P.NO25/S.NO5.29.1(PWD SR2014-2015)	NO,s							
	(Size450*200*400MM)11th A cross		2	220.00			440.00		
	3rd A Main		2	45.00			90.00		
							530.00		
	Missing kerbs in 12th A Cross		2	200.00			400.00		
		30%of Missing Kerbs qty					**120.00**		
							650.00		
							1439.00		
	Deductions		239				239.00		
							1200.00	**357.48**	**428976.00**
	Basic rate	331.00							
	Add 8% AW	26.48							
	Total	357.48							
16	KSRB 15-17.5:Applying priming coat over new wood surface and/or wood based surfaces after preparing the surface after throughly cleaning oil,grease,dirt and forign matter,sand papering and knotting liquid wood filler,for varnish including cost of materials,labour,complete as per specificationsP.NO115/15.59)	Sqm							
	Kerb stone painting		2	220.00		0.35	154.00		
	3rd A Main		2	45.00		0.35	31.50		
	Missing kerbs in 12th A Cross		2	200.00		0.35	140.00		
							325.50		
	Deductions		239	0.46		0.35	38.48		
							287.02	**33.48**	**9609.00**
	Basic rate	31.00							
	Add 8% AW	2.48							
	Total	33.48							
17	KSRB 15-17.6:Providing and applying painting two coats(excluding proiming coat)on new wood surface and/or wood based surfaces with ename paint to give an even shade,cleaning the surface of all dirt,dust and forign matter,sand papering including as per specifications and directions of the engineer in charge of the work.P.NO115/15.60.1)	Sqm	6						

	Kerb stone painting	Quantity vide item no-16					287.02		
							287.02	**84.24**	**24179.00**
	Basic rate	78.00							
	Add 8% AW	6.24							
	Total	84.24							
18	KSRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501	Sqm							
	3rd A Main		1	45.00	2.60		117.00		
	12 th A Cross		1	80.00	4.50		360.00		
							477.00	**3.02**	**1442.00**
	Basic rate	2.80							
	Add 8% AW	0.22							
	Total	**3.02**							
19	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification: 406 (PWD SR 2014-15 P.N.154 lt 20.18)	Cum							
	3rd A Main		2	45.00	2.30	0.25	51.75		
	Pot holes		12	2.70	0.90	0.20	5.83		
			8	1.70	1.50	0.25	5.10		
	12 th A Cross		38	1.00	0.90	0.20	6.83		
			22	2.00	1.20	0.20	10.56		
	Road cuttings		8	5.00	0.75	0.25	7.50		
							87.57	**1438.56**	**125977.00**
	Basic rate	1332.00							
	Add 8% AW	106.56							
	Total	1438.56							

20	KSRRB M500-6.Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH SpecificationsNo502 (ITEM No.621.6 P-157 DSR 2014-15)	Sqm							
	3rd A Main		1	45.00	7.25		326.25		
	12th A Cross		1	80.00	4.70		376.00		
	Basic rate	32.60					702.25	35.21	24725.00
	Add 8% AW	2.61							
	Total	**35.21**							
21	KSRRB M500-18.Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler, transporting the hot mix to work site.laying with a paver finisher to the required grade,levell and alignment, rollingwithsmoothwheeled,vibratoryan dtandemrollers to achievethe desired compactionasperMORTHSpecification clauseno508completeinallrespectscomp leteasperspecifications.using100120TH capacity H.M.P with sensor paver gradingI(35-40mm) with 4.5% CRMB55grade(Itemno21.21.1.Pageno1 6 D 2014-15)	Sqm							
	12th A Cross		1	80.00	4.70	0.035	13.16		
	Basic rate	9440.00					13.16	10195.20	134169.00
	Add 8% AW	755.20							
	Total	10195.20							
22	KSRB M500-13: Providing and laying bituminos macadam 50mm thick with 100-120 TPH hot mix plant producing an average out of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a prevuiusky prepared syrface with paver finisher to the required grade, level and alignament and rolled as per clauses 501.6 and 501.7 to achive the desired cinpactuib complete as per specifications Mother specification No.504, 50-75mm compacted thickness(grading II) with 3.3% bitumen(P-159, It.21.17.2)	Cum	8						

	3rd A Main		1	45.00	7.25	0.05	16.31		
	Basic rate	8576.00					16.31	9262.08	151088.00
	Add 8% AW	686.08							
	Total	9262.08							
23	KSRB 500-10:Tack coat:Providing and applying tack coat with bitumen emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom, complete as per specifications. MORTH specification No.503 using bitumen emulsion (P-158.It.21.10.1)	Sqm							
	Basic rate	13.51	1	45.00	7.25		326.25		
	Add 8% AW	1.08					**326.25**	**14.59**	**4760.00**
	Total	**14.59**							
24	KSRRB M500-19: Providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, No.169 Item No.	Cum							
	3rd A Main		1	45.00	7.25	0.04	13.05		
	Basic rate	10104.00					**13.05**	**10912.32**	**142406.00**
	Add 8% AW	808.32							
	Total	10912.32							

25	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum. KSRRB M100-1:Placing tipper at loading point,loading w...n front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2014-15)	Cum					200% 1208.05	68.04	136.36.00 82196.00
				Vide Item No. 1					
	Basic Rate	63.00							
	Area Weightage @ 8%	5.04							2231435.76
	Total	68.04					TOTAL		2231606.06
									245458.00
	KRDIL Charegs 11%								245476.67
									22314.00
	Quality Control charges 1%								22316.06
									792.24
26	Miscellaneous charges	L/S							601.21
								Total RS	2500000.00
	(Rupees twenty five lakhs only)								

Certificate:-

1 The work spot has been inspected and the work is found neccessary.
2 This estimate is prepared as per C.S.R. of 2014-15
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

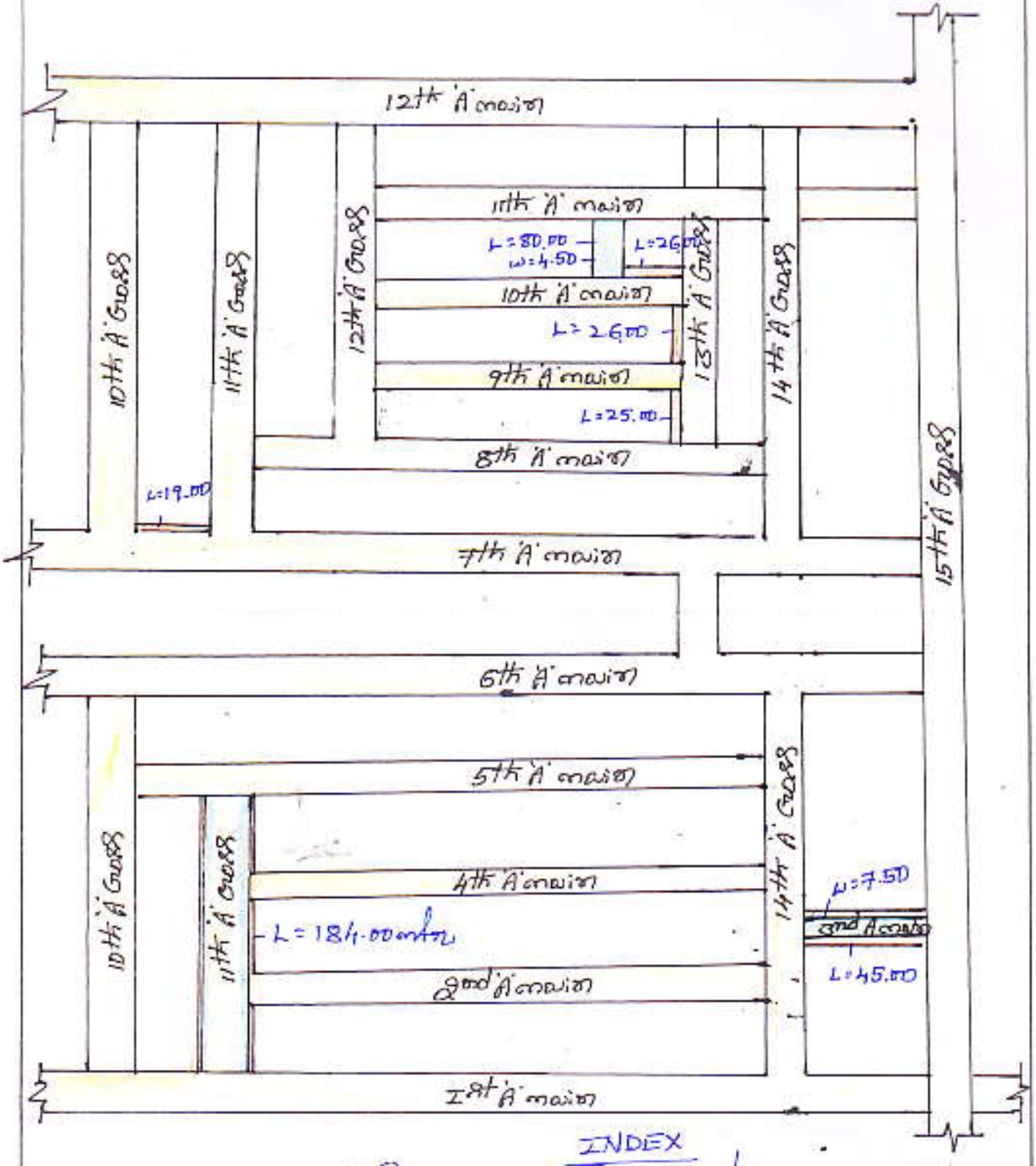
Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Sanction for Rs.....
Administrative Approval
Accorded for Rs 25-00 Lakhs
is accorded under head.....
P-2415
.....
registered as CE No. 122 Dt 10-02-15 Subject
to Conditions contained in enclosed memo
No...../.....Dr.....
(YNK)

Technical Sanction
Accorded for Rs 25-00 Lakhs
P-2415
83 Dt 10-02-15
(YNK)

Name of work:- Improvement of drain & Asphalting to A Section drain & Cross roads in ward no-84.



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K.M.

Asst

Asst

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106